

CLAIMS (31289)

What is claimed is:

1. A method of transmission, comprising:
 - (a) convolution encoding a block of bits with each of codes g_1, g_2, \dots, g_n where n is an integer greater than 1 to yield n packets of encoded bits;
 - (b) transmitting said packet encoded with g_1 from step (a);
 - (c) transmitting said packet encoded with g_2 from step (a) in response to a received request for transmission.
2. The method of claim 1, wherein:
 - (a) said block of bits includes data bits plus check bits.
3. A method of reception, comprising:
 - (a) decoding a received packet of bits which includes data bits and check bits, said packet encoded with convolution code g_1 ;
 - (b) when the decoding of step (a) indicates an error, receiving and decoding a packet of said data bits and check bits encoded with convolution code g_2 where g_1 differs from g_2 ;
 - (c) when said decoding of step (b) indicates an error, decoding a combination of said packet encoded with code g_1 with said packet encoded with code g_2 .
4. The method of claim 3, further comprising:
 - (a) when the decoding of step (a) of claim 3 indicates an error, sending a request for a packet of said data bits and check bits encoded with convolution code g_2 .
5. The method of claim 3, wherein:
 - (a) said decoding of step (c) uses the Viterbi algorithm.

6. The method of claim 3, wherein:

(a) said decoding of step (c) of claim 3 combines said packet encoded with g1 and said packet encoded with g2 by weighting each of said packets according to a transmission channel fading amplitude during reception of said each of said packets.